## SAINT PAUL REGIONAL WATER SERVICES PHYSICAL AND CHEMICAL ANALYSIS OF WATER Mar-15

All results are in parts per million & Samples Measured are Dissolved lons

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PHYSICAL WATER QUALITY		
	Reporting Limit	EFFLUENT
Color (Color Units)	4	<4
Loss Ignition (ppm)	84	<84
Non-Volatile Salts (ppm)	84	101
Temperature (°C)	0.02	6
Total Dissolved Solids (ppm)	75	182
Turbidity (NTU)	0.030	< 0.030
CHEMICAL WATER QUALITY		
	Reporting Limit	EFFLUENT
Alkalinity-Total (ppm as CaCO <sub>3</sub> )	0.40	57
Carbonate Hardness (ppm as CaCO <sub>3</sub> )	0.40	57
Dissolved Oxygen (ppm)	1.2	9.3
Hydrogen Ion-pH	0.04	8.95
Non-Carbonate Hardness (ppm)	0.40	38
Total Hardness (ppm as CaCO <sub>3</sub> )-EDTA method	0.40	96
Total Organic Carbon (ppm as C)	0.40	5.64
Total Hardness (grains/Gal as CaCO 3)-EDTA method is 5.61 gr		0.0.
CHEMICAL WATER QUALITY - INORGANIC NONMETALS		
OTTENIOAE WATER QUALITY - INORGANIO NON	Reporting Limit	EFFLUENT
Ammonia Nitrogen (ppm as N)	0.030	0.979
	8	
Chloride-Cl (ppm as Cl <sup>-1</sup> )		38
Chlorine Residual (ppm Cl as Cl <sub>2</sub> )	0.090	3.30
Fluoride-F (ppm as F <sup>-1</sup> )	0.08	0.85
Nitrate, Nitrite Nitrogen (ppm as N)	0.202	0.533
Sulfur-S (ppm as S)	2.7	3.7
Sulfide-S <sup>2-</sup> (ppm as S <sup>2-</sup> )	0.020	<0.020
Total Phosphorus-P (ppm as P)	0.025	<0.025
Total Nitrogen-N (ppm as N)	0.008	1.15
CHEMICAL WATER QUALITY - METALS		
	Reporting Limit	EFFLUENT
Aluminum-Al (ppm as Al)	0.006	0.011
Arsenic-As (ppm as As)	0.006	<0.006
Cadmium-Cd (ppm as Cd)	0.003	<0.003
Calcium-Ca (ppm as Ca)	0.40	24
Copper-Cu (ppm as Cu)	0.050	<0.050
Hexavalent Chromium (ppm as Cr <sup>6+</sup> )	0.040	<0.040
Iron-Fe (ppm as Fe)	0.050	<0.050
Lead-Pb (ppm as Pb)	0.006	<0.006
Magnesium-Mg (ppm as Mg)	0.40	9
Manganese-Mn (ppm as Mn)	0.090	<0.090
Silicon-Si (ppm as Si)	0.84 0.079	4.75 19.20
Sodium-Na (ppm as Na)		
Zinc-Zn (ppm as Zn)	0.050	<0.050